

Amendments to the Claims

The following listing of claims replaces all prior listings, and all prior versions, of claims in the application.

Listing of Claims:

1. (currently amended) A modular/configurable rotary die for a rotary die cutter for making a corrugated carton blank, from which a carton having at least one quick closing continuous closure panel can be erected, from a stock sheet of corrugated material, the rotary die comprising:

a plurality of at least five interlocking modular die components which are capable of being combined in multiple configurations for producing multiple carton sizes, said die components being mountable directly on a roller of a rotary die cutter where the die elements are interlocked with one another, each die component having at least one blade thereon for at least one of scoring, creasing and cutting a corrugated sheet to cooperatively form a corrugated carton blank in a rotary die cutter from a stock sheet of corrugated material,

wherein said plurality of die components include, with reference to the three dimensions of a ~~the~~ carton to be erected from a ~~the~~ corrugated carton blank, at least one length die component which determines the length of the carton, at least one height die component which determines the height of the carton, and at least two closure panel die components ~~one width die component which determines~~ determine the width of the carton and produce respective fold-in panels of said at least one quick closing continuous closure panel.

wherein each of said closure panel die components includes:
two slit/cut blades each arranged for slitting a 45 degree angled
line on a fold-in panel of a quick closing continuous closure panel,
two perforation blades each arranged to cut and score the
corrugated stock sheet to form a perforated straight line that is
perpendicular to the length of the carton blank, and
one scoring blade arranged to score a straight line at the bottom
of the fold-in panel, parallel to the length of the carton blank and between
the two perforated lines formed by said two perforation blades.

2. (canceled)

3. (canceled)

4. (previously amended) The rotary die according to claim 1, further comprising a plurality of die mounting clamps for mounting the die components directly on a roller of a rotary die cutter.

5. (previously amended) The rotary die according to claim 4, wherein said die mounting clamps include means for adjustably positioning the clamps relative to threaded attachment holes in a roller of a rotary die cutter on which the die components are mounted.

6. (original) The rotary die according to claim 4, wherein said plurality of die components include components having slots on their outer surfaces

for receiving said die mounting clamps therein when the die components are mounted on a roller of a rotary die cutter.

7. (canceled)

8. (currently amended) The rotary die according to claim 1, wherein said plurality of die components include four of said closure panel die components which determine the width of the carton and cooperate to form a corrugated carton blank having two quick closing continuous closure panels that run parallel to each other end-to-end along the length of the carton blank on respective sides of the carton blank.

9. (currently amended) The rotary die according to claim 8, wherein said plurality of die components further include:

(a) four score die components that determine the length of a carton to be erected from the corrugated carton blank; and

(b) four crease die components that determine the height of the carton; and

~~(c) four quick closing closure panel die components that determine the width of the carton and create the quick closing closure panels.~~

10. (currently amended) The rotary die according to claim 8, wherein said plurality of die components further include:

(a) two score/crease panel die components that determine the height and the length of a carton to be erected from the corrugated carton blank;
and

(b) one crease die component that determines the height of the carton; and

~~(c) four quick closing closure panel die components that determine the width of the carton and create the quick closing closure panels.~~

11. (currently amended) The rotary die according to claim 8, wherein each of said plurality of closure panel die components include die components having further includes a curved cut blades-blade that cut cuts the outline of a hide away handles-handle on a fold-in panel of a quick closing closure panel formed on the corrugated carton blank.

12. (currently amended) The rotary die according to claim 1, wherein said plurality of die components cooperate to form a corrugated carton blank having a-one quick closing continuous closure panel that runs along the length of the carton blank on one side thereof and on an opposite side has a plurality of flaps with cut slots separating the flaps.

13. (currently amended) The rotary die according to claim 12, wherein said plurality of die components further include:

(a) four score die components that determine the length of a carton to be erected from the corrugated carton blank;

(b) four crease die components that determine the height of the carton;
and

(c) two flap die components that determine the width of the carton and cut the slots for the flaps; and

~~(d) two quick closing closure panel die components that determine the width of the carton and create the quick closing closure panel.~~

14. (currently amended) The rotary die according to claim 12, wherein said plurality of die components further include:

(a) two score/crease panel die components which determine the height and the length of a carton to be erected from the corrugated carton blank;

(b) one crease die component that determines the height of the carton;
and

(c) two flap die components that determine the width of the carton and cut the slots for the flaps; and

~~(d) two quick closing closure panel die components that determine the width of the carton and create the quick closing closure panel.~~

15. (currently amended) The rotary die according to claim 12, wherein each of said plurality of closure panel die components include die components having further includes a curved cut blades-blade that cut cuts the outline of a hide away handles-handle on the-a fold in panel of a quick closing closure panel formed on the corrugated carton blank.

16. (canceled)

17. (canceled)

18. (canceled)

19. (canceled)

20. (original) The rotary die according to claim 1, wherein said plurality of die components cooperate to form a corrugated carton blank having one quick closing continuous closure panel that runs along the length of the carton blank on one side thereof, which carton blank can be erected to form a telescope half carton.

21. (currently amended) The rotary die according to claim 20, wherein said plurality of die components further include:

(a) two score/crease die components that determine the height and the length of the carton to be erected from the corrugated carton blank;
and

(b) one crease die component that determines the height of the carton; and

~~— (c) two quick closing closure panel die components that determine the width of the carton.~~

22. (canceled)

23. (canceled)

24. (original) The rotary die according to claim 1, wherein said plurality of die components are pre-assembled in interlocking relation with one another on a brace for positioning the pre-assembled die components on a roller of a rotary die cutter.

25. (original) The rotary die according to claim 1, wherein said plurality of die components are secured in position on a roller of a rotary die cutter.

26. (currently amended) A rotary die cutter for making a corrugated carton blank, from which a carton having at least one quick closing continuous closure panel can be erected, from a stock sheet of corrugated material, comprising:

- a rotary die anvil roller;

- a rotary die roller;

- a rotary die mounted on the outer circumferential surface of the rotary die roller to form a rotary press with said rotary die anvil roller for producing a corrugated carton blank from a stock sheet of corrugated material fed between the rotary die and the anvil roller;

- wherein the rotary die is formed with a plurality of at least five interlocking modular die components which are capable of being combined in multiple configurations for producing multiple carton sizes, said die components being mounted directly on said rotary die roller and

interlocked with one another, each die component having at least one blade thereon for at least one of scoring, creasing and cutting a corrugated sheet fed between the rotary die and the anvil roller to cooperatively form a corrugated carton blank from a stock sheet of corrugated material,

wherein said plurality of die components include, with reference to the three dimensions of a carton to be erected from a corrugated carton blank, at least one length die component which determines the length of the carton, at least one height die component which determines the height of the carton, and at least two closure panel die components ~~one width die component which determines~~ determine the width of the carton and produce respective fold-in panels of said at least one quick closing continuous closure panel,

wherein each of said closure panel die components includes:

two slit/cut blades each arranged for slitting a 45 degree angled line on a fold-in panel of a quick closing continuous closure panel,

two perforation blades each arranged to cut and score the corrugated stock sheet to form a perforated straight line that is perpendicular to the length of the carton blank, and

one scoring blade arranged to score a straight line at the bottom of the fold-in panel, parallel to the length of the carton blank and between the two perforated lines formed by said two perforation blades.

27. (currently amended) The rotary die cutter according to claim 26, wherein said ~~plurality of die components cooperate to form a corrugated carton blank having~~ at least one quick closing continuous closure panel

~~that formed by said die components~~ runs end-to-end along the length of the carton blank.

28. (canceled)

29. (currently amended) The rotary die cutter according to claim ~~28~~26, wherein the at least two ~~quick-closing-closure~~ panel die components each have a curved cut blade that cuts the outline of a hide away handle on fold-in panels formed on the carton blank.

30. - 39. (canceled)